LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092120\
Data File : BF121642.D
Acq On : 21 Sep 2020 23:14
Operator : JU/CG
Sample : L4073-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** H-1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.028 | 496 | 500 | 509 | rVB | 40868 | 52272 | 1.55% | 0.123% |
| 2 | 5.440 | 565 | 570 | 584 | rVB | 2623992 | 2645190 | 78.68% | 6.209% |
| 3 | 6.457 | 738 | 743 | 758 | rBV | 2688853 | 2790662 | 83.01% | 6.550% |
| 4 | 6.645 | 772 | 775 | 785 | rBV | 202238 | 192883 | 5.74% | 0.453% |
| 5 | 6.816 | 800 | 804 | 808 | rBV | 1144127 | 942440 | 28.03% | 2.212% |
| 6 | 7.381 | 895 | 900 | 903 | rBV | 1982428 | 1894299 | 56.35% | 4.446% |
| 7 | 7.834 | 972 | 977 | 986 | rBV | 38208 | 92310 | 2.75% | 0.217% |
| 8 | 8.104 | 1018 | 1023 | 1026 | rBV | 1284784 | 1216371 | 36.18% | 2.855% |
| 9 | 9.181 | 1201 | 1206 | 1209 | rBV | 3563305 | 3361893 | 100.00% | 7.891% |
| 10 | 9.298 | 1221 | 1226 | 1230 | rVB | 267355 | 239888 | 7.14% | 0.563% |
| 11 | 9.575 | 1269 | 1273 | 1280 | rVB | 695749 | 586354 | 17.44% | 1.376% |
| 12 | 9.863 | 1316 | 1322 | 1325 | rBV | 1531892 | 1365718 | 40.62% | 3.206% |
| 13 | 10.181 | 1369 | 1376 | 1378 | rBV2 | 34333 | 49375 | 1.47% | 0.116% |
| 14 | 10.410 | 1411 | 1415 | 1419 | rBV2 | 48780 | 55281 | 1.64% | 0.130% |
| 15 | 10.569 | 1438 | 1442 | 1445 | rVB2 | 33467 | 37603 | 1.12% | 0.088% |
| 16 | 10.651 | 1451 | 1456 | 1460 | rBV | 2179865 | 1953304 | 58.10% | 4.585% |
| 17 | 10.775 | 1473 | 1477 | 1481 | rVB3 | 49200 | 56713 | 1.69% | 0.133% |
| 18 | 10.957 | 1502 | 1508 | 1511 | rBV3 | 49717 | 71085 | 2.11% | 0.167% |
| 19 | 11.086 | 1525 | 1530 | 1532 | rBV3 | 67010 | 81334 | 2.42% | 0.191% |
| 20 | 11.110 | 1532 | 1534 | 1538 | rVB | 54784 | 53342 | 1.59% | 0.125% |
| 21 | 11.198 | 1545 | 1549 | 1550 | rBV | 60098 | 62017 | 1.84% | 0.146% |
| 22 | 11.245 | 1555 | 1557 | 1562 | rVB3 | 50317 | 53054 | 1.58% | 0.125% |
| 23 | 11.351 | 1570 | 1575 | 1577 | rBV | 1470566 | 1368830 | 40.72% | 3.213% |
| 24 | 11.375 | 1577 | 1579 | 1582 | rVV | 658223 | 530085 | 15.77% | 1.244% |
| 25 | 11.422 | 1585 | 1587 | 1590 | rVB | 207574 | 169815 | 5.05% | 0.399% |
| 26 | 11.457 | 1590 | 1593 | 1596 | rBV2 | 53434 | 60236 | 1.79% | 0.141% |
| 27 | 11.604 | 1615 | 1618 | 1623 | rVB2 | 44205 | 56900 | 1.69% | 0.134% |
| 28 | 11.645 | 1623 | 1625 | 1627 | rVV | 62494 | 42075 | 1.25% | 0.099% |
| 29 | 11.680 | 1628 | 1631 | 1636 | rVB3 | 45717 | 56689 | 1.69% | 0.133% |
| 30 | 11.851 | 1654 | 1660 | 1662 | rBV | 234116 | 216725 | 6.45% | 0.509% |
| 31 | 11.880 | 1662 | 1665 | 1669 | rVV | 417513 | 375327 | 11.16% | 0.881% |
| 32 | 11.927 | 1669 | 1673 | 1676 | rVV | 162475 | 170450 | 5.07% | 0.400% |
| 33 | 11.963 | 1676 | 1679 | 1681 | rVV | 336635 | 356280 | 10.60% | 0.836% |
| 34 | 11.986 | 1681 | 1683 | 1688 | rVB | 172032 | 145190 | 4.32% | 0.341% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092120\
Data File : BF121642.D
Acq On : 21 Sep 2020 23:14
Operator : JU/CG
Sample : L4073-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** H-1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 12.151 | 1707 | 1711 | 1713 | rBV | 149524 | 144233 | 4.29% | 0.339% |
| 36 | 12.175 | 1713 | 1715 | 1719 | rVB2 | 73973 | 64362 | 1.91% | 0.151% |
| 37 | 12.298 | 1731 | 1736 | 1739 | rBV3 | 79153 | 108384 | 3.22% | 0.254% |
| 38 | 12.327 | 1739 | 1741 | 1744 | rVV | 81633 | 86156 | 2.56% | 0.202% |
| 39 | 12.357 | 1744 | 1746 | 1748 | rVB | 64004 | 51324 | 1.53% | 0.120% |
| 40 | 12.404 | 1751 | 1754 | 1757 | rVV | 191225 | 227687 | 6.77% | 0.534% |
| 41 | 12.445 | 1757 | 1761 | 1763 | rVV | 148338 | 197792 | 5.88% | 0.464% |
| 42 | 12.492 | 1766 | 1769 | 1775 | rVV2 | 127169 | 164343 | 4.89% | 0.386% |
| 43 | 12.569 | 1778 | 1782 | 1785 | rVV | 2075912 | 1779045 | 52.92% | 4.176% |
| 44 | 12.610 | 1786 | 1789 | 1791 | rVV | 53277 | 53839 | 1.60% | 0.126% |
| 45 | 12.627 | 1791 | 1792 | 1795 | rVB2 | 53698 | 40764 | 1.21% | 0.096% |
| 46 | 12.692 | 1800 | 1803 | 1805 | rVV3 | 53629 | 67154 | 2.00% | 0.158% |
| 47 | 12.716 | 1805 | 1807 | 1810 | rVV | 73714 | 81563 | 2.43% | 0.191% |
| 48 | 12.798 | 1813 | 1821 | 1824 | rVV2 | 1626413 | 1989278 | 59.17% | 4.669% |
| 49 | 12.845 | 1826 | 1829 | 1834 | rVB2 | 110342 | 161075 | 4.79% | 0.378% |
| 50 | 12.939 | 1841 | 1845 | 1852 | rVB | 3292297 | 3120003 | 92.80% | 7.323% |
| 51 | 13.016 | 1852 | 1858 | 1861 | rBV3 | 197671 | 314081 | 9.34% | 0.737% |
| 52 | 13.069 | 1865 | 1867 | 1869 | rBV3 | 40760 | 34518 | 1.03% | 0.081% |
| 53 | 13.098 | 1869 | 1872 | 1874 | rBV3 | 150070 | 184617 | 5.49% | 0.433% |
| 54 | 13.122 | 1874 | 1876 | 1879 | rVB | 370141 | 319229 | 9.50% | 0.749% |
| 55 | 13.192 | 1879 | 1888 | 1890 | rBV | 265850 | 369831 | 11.00% | 0.868% |
| 56 | 13.227 | 1890 | 1894 | 1897 | rVV2 | 287128 | 328608 | 9.77% | 0.771% |
| 57 | 13.280 | 1901 | 1903 | 1906 | rVV | 68637 | 69925 | 2.08% | 0.164% |
| 58 | 13.322 | 1907 | 1910 | 1912 | rVB | 125657 | 111506 | 3.32% | 0.262% |
| 59 | 13.351 | 1912 | 1915 | 1919 | rBV2 | 119343 | 136656 | 4.06% | 0.321% |
| 60 | 13.527 | 1938 | 1945 | 1946 | rBV4 | 83903 | 175881 | 5.23% | 0.413% |
| 61 | 13.610 | 1956 | 1959 | 1960 | rBV2 | 63583 | 68738 | 2.04% | 0.161% |
| 62 | 13.633 | 1960 | 1963 | 1967 | rVB | 159969 | 198241 | 5.90% | 0.465% |
| 63 | 13.739 | 1978 | 1981 | 1984 | rBV3 | 134399 | 171607 | 5.10% | 0.403% |
| 64 | 13.769 | 1984 | 1986 | 1988 | rVV | 177352 | 160696 | 4.78% | 0.377% |
| 65 | 13.792 | 1988 | 1990 | 1995 | rVV2 | 150099 | 191686 | 5.70% | 0.450% |
| 66 | 13.839 | 1995 | 1998 | 2005 | rVB | 593764 | 697059 | 20.73% | 1.636% |
| 67 | 13.992 | 2019 | 2024 | 2027 | rBV2 | 1527858 | 2257489 | 67.15% | 5.299% |
| 68 | 14.021 | 2027 | 2029 | 2035 | rVB | 1021794 | 864556 | 25.72% | 2.029% |
| 69 | 14.098 | 2040 | 2042 | 2045 | rVB | 160163 | 117937 | 3.51% | 0.277% |
| 70 | 14.380 | 2087 | 2090 | 2093 | rVB | 266870 | 236919 | 7.05% | 0.556% |
| 71 | 14.416 | 2093 | 2096 | 2099 | rBV | 123363 | 117270 | 3.49% | 0.275% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092120\
Data File : BF121642.D
Acq On : 21 Sep 2020 23:14
Operator : JU/CG
Sample : L4073-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** H-1

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 14.504 | 2109 | 2111 | 2113 | rBV | 94279 | 78632 | 2.34% | 0.185% |
| 73 | 14.527 | 2113 | 2115 | 2118 | rVB2 | 110871 | 93795 | 2.79% | 0.220% |
| 74 | 14.774 | 2154 | 2157 | 2159 | rBV2 | 75854 | 84928 | 2.53% | 0.199% |
| 75 | 15.039 | 2197 | 2202 | 2204 | rBV | 786483 | 1224840 | 36.43% | 2.875% |
| 76 | 15.139 | 2216 | 2219 | 2226 | rVB | 206557 | 248244 | 7.38% | 0.583% |
| 77 | 15.333 | 2249 | 2252 | 2258 | rVB | 434804 | 606627 | 18.04% | 1.424% |
| 78 | 15.398 | 2259 | 2263 | 2269 | rBV | 765292 | 923884 | 27.48% | 2.169% |
| 79 | 15.463 | 2269 | 2274 | 2277 | rBV2 | 888489 | 1131059 | 33.64% | 2.655% |
| 80 | 15.492 | 2277 | 2279 | 2285 | rVB2 | 256296 | 305154 | 9.08% | 0.716% |
| 81 | 16.921 | 2516 | 2522 | 2529 | rVB2 | 314882 | 636252 | 18.93% | 1.493% |
| 82 | 17.357 | 2591 | 2596 | 2605 | rVB | 201133 | 403853 | 12.01% | 0.948% |

Sum of corrected areas: 42603310

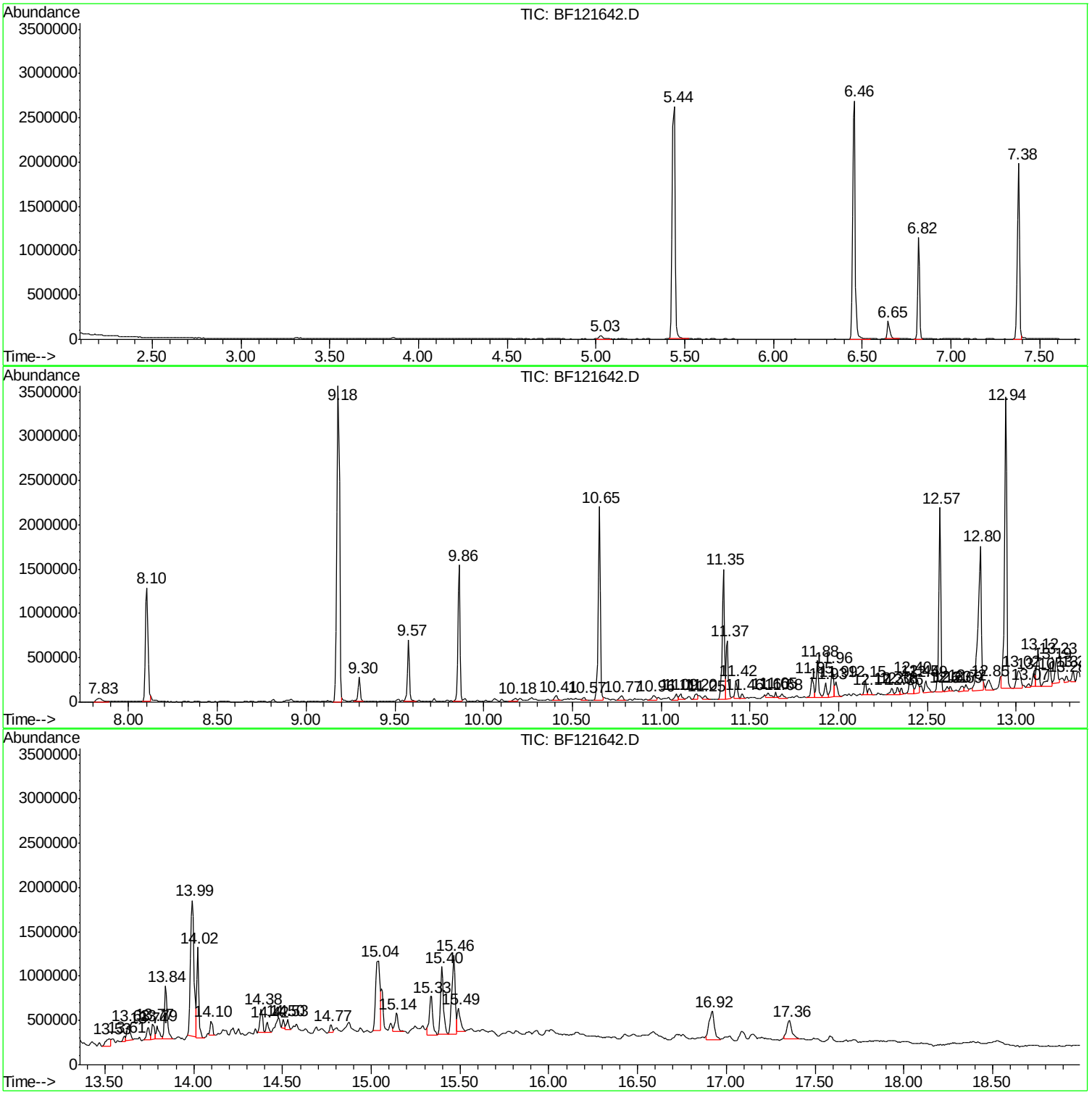
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092120\
Data File : BF121642.D
Acq On : 21 Sep 2020 23:14
Operator : JU/CG
Sample : L4073-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** H-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092120\
Data File : BF121642.D
Acq On : 21 Sep 2020 23:14
Operator : JU/CG
Sample : L4073-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** H-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

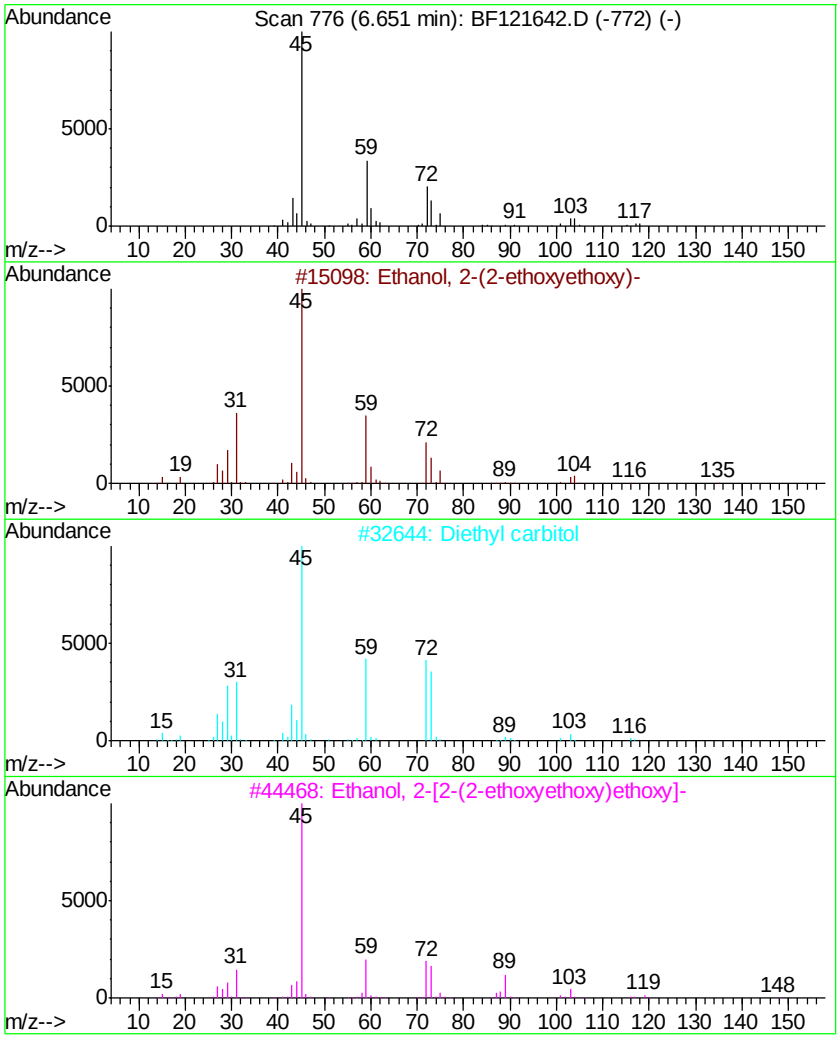
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

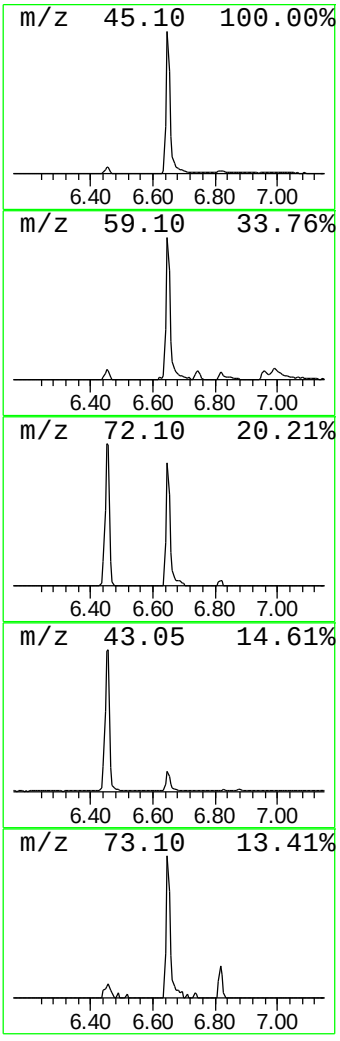
**********

Peak Number 1 Ethanol, 2-(2-ethoxyethoxy)- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.65 | 4.09 ng | 192883 | 1,4-Dichlorobenzene-d4 | 6.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethanol, 2-(2-ethoxyethoxy)- | 134 | C6H14O3 | 000111-90-0 | 90 |
| 2 | Diethyl carbitol | 162 | C8H18O3 | 000112-36-7 | 72 |
| 3 | Ethanol, 2-[2-(2-ethoxyethoxy)et... | 178 | C8H18O4 | 000112-50-5 | 50 |
| 4 | 2-Butanol, 3-methyl- | 88 | C5H12O | 000598-75-4 | 43 |
| 5 | Ethanol, 2-[2-(2-propenyloxy)eth... | 146 | C7H14O3 | 015075-50-0 | 40 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092120\
Data File : BF121642.D
Acq On : 21 Sep 2020 23:14
Operator : JU/CG
Sample : L4073-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** H-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

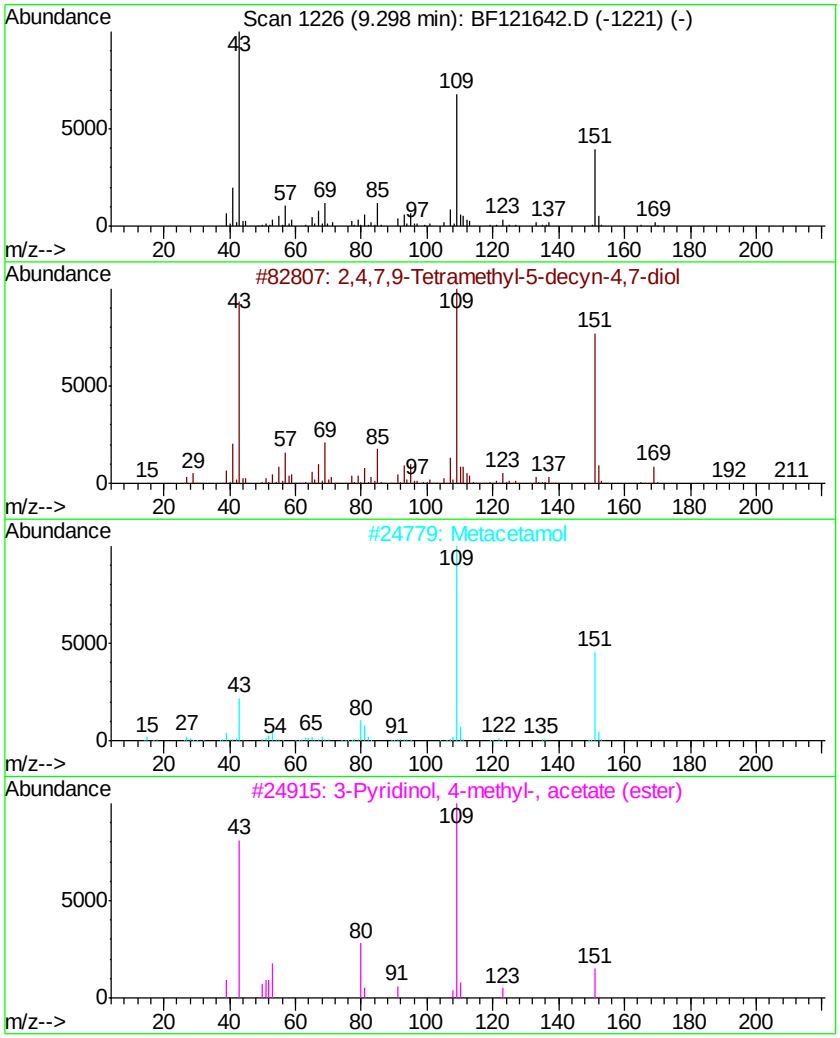
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

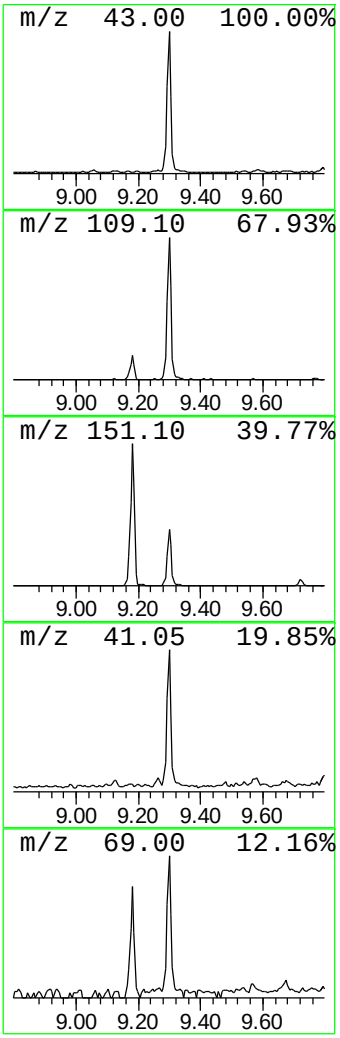
**********

Peak Number 2 2,4,7,9-Tetramethyl-5-decyn... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.30 | 3.51 ng | 239888 | Acenaphthene-d10 | 9.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,4,7,9-Tetramethyl-5-decyn-4,7-... | 226 | C14H26O2 | 000126-86-3 | 90 |
| 2 | Metacetamol | 151 | C8H9NO2 | 000621-42-1 | 53 |
| 3 | 3-Pyridinol, 4-methyl-, acetate ... | 151 | C8H9NO2 | 001006-96-8 | 53 |
| 4 | m-Isopropoxyaniline | 151 | C9H13NO | 041406-00-2 | 53 |
| 5 | Pyridine, 2-butyl-, 1-oxide | 151 | C9H13NO | 031396-32-4 | 45 |



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Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092120\
Data File : BF121642.D
Acq On : 21 Sep 2020 23:14
Operator : JU/CG
Sample : L4073-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** H-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

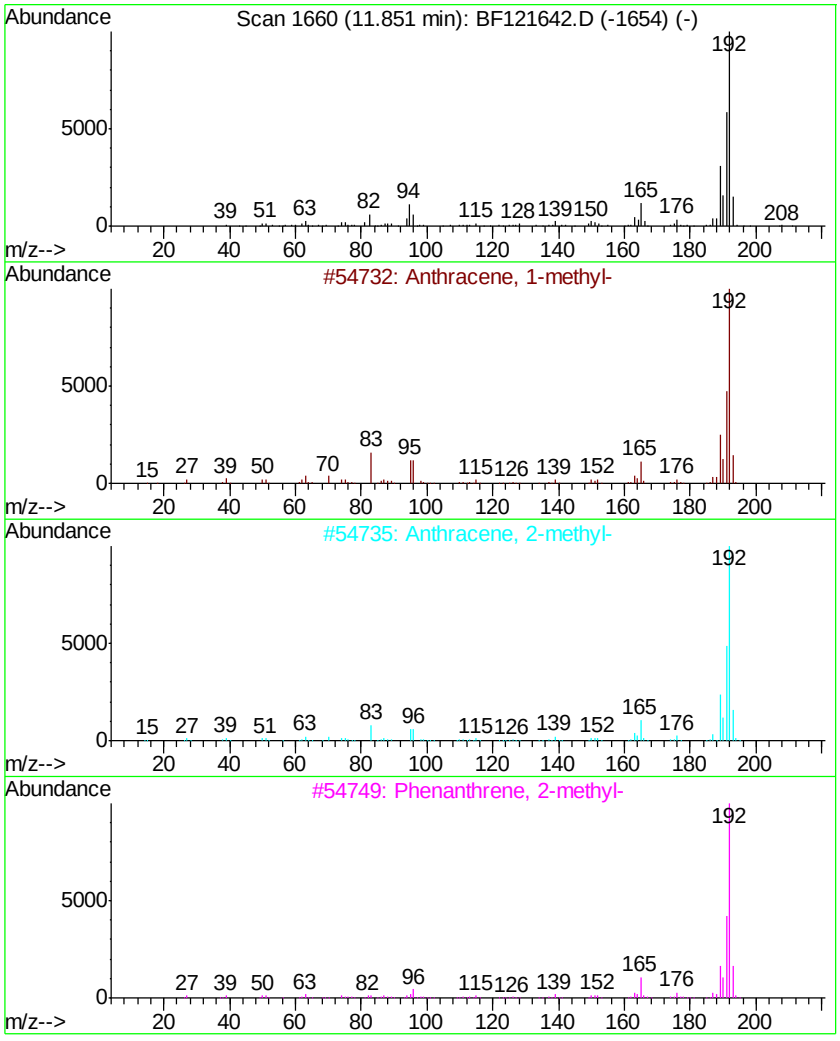
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

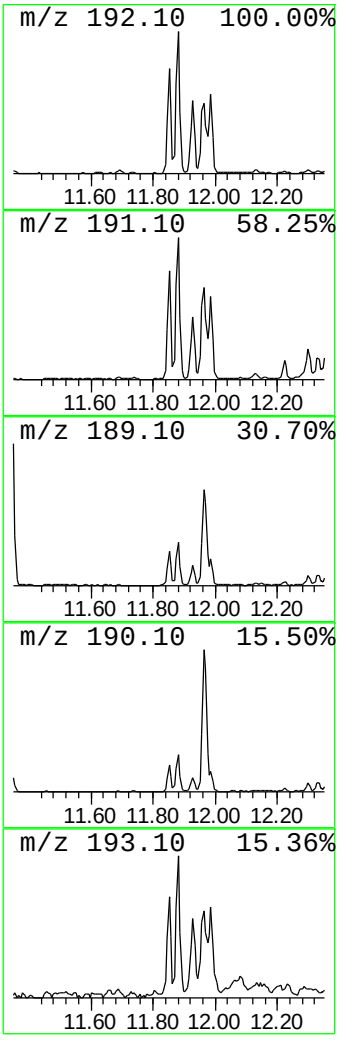
**********

Peak Number 3 Anthracene, 1-methyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.85 | 3.17 ng | 216725 | Phenanthrene-d10 | 11.35 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 94 |
| 2 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 93 |
| 3 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 92 |
| 4 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 91 |
| 5 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 90 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092120\
Data File : BF121642.D
Acq On : 21 Sep 2020 23:14
Operator : JU/CG
Sample : L4073-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** H-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

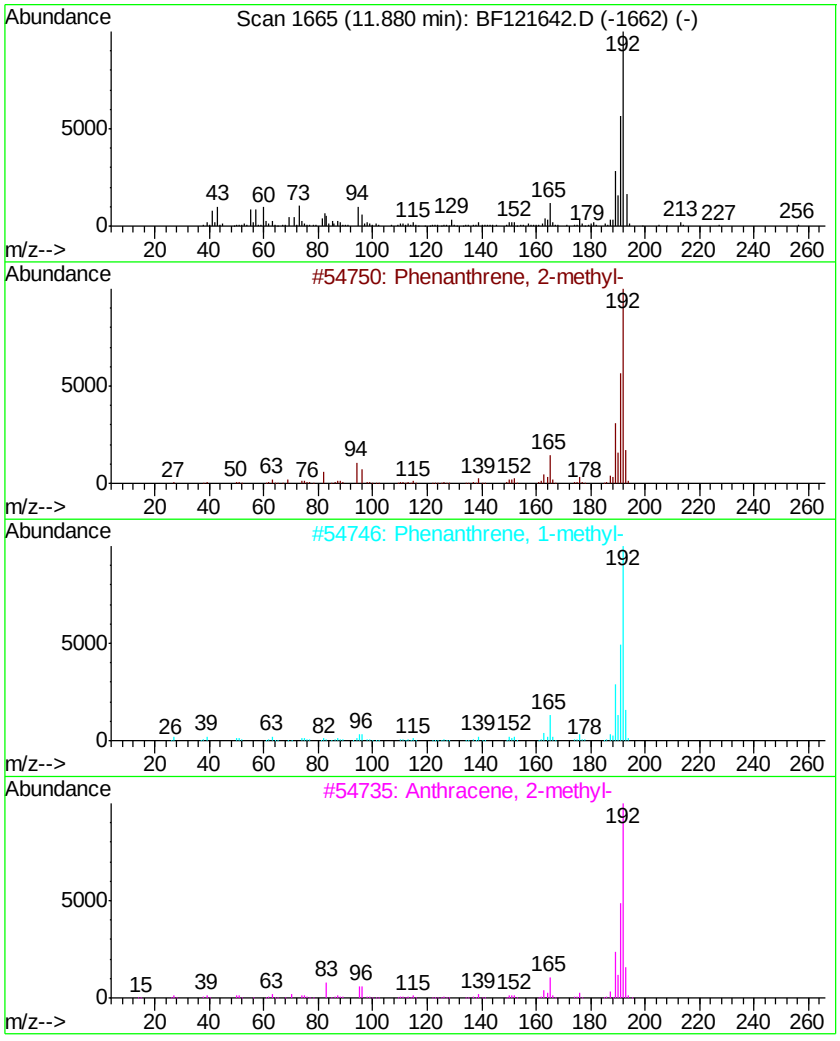
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

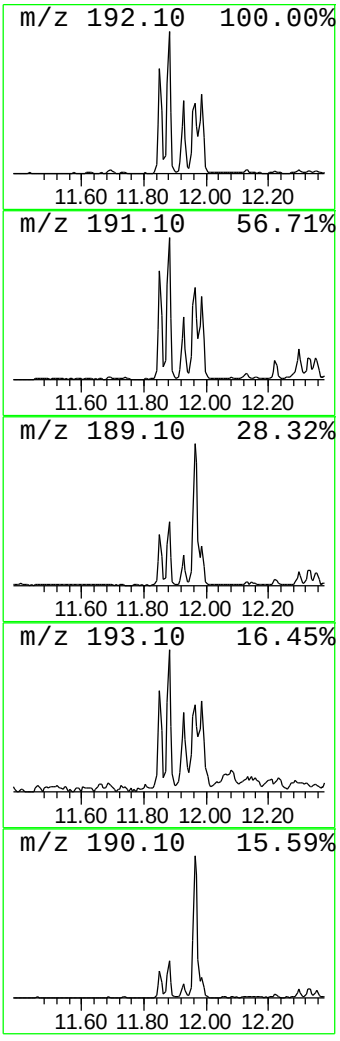
**********

Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.88 | 5.48 ng | 375327 | Phenanthrene-d10 | 11.35 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 98 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 96 |
| 3 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 4 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 96 |
| 5 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 95 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092120\
Data File : BF121642.D
Acq On : 21 Sep 2020 23:14
Operator : JU/CG
Sample : L4073-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** H-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

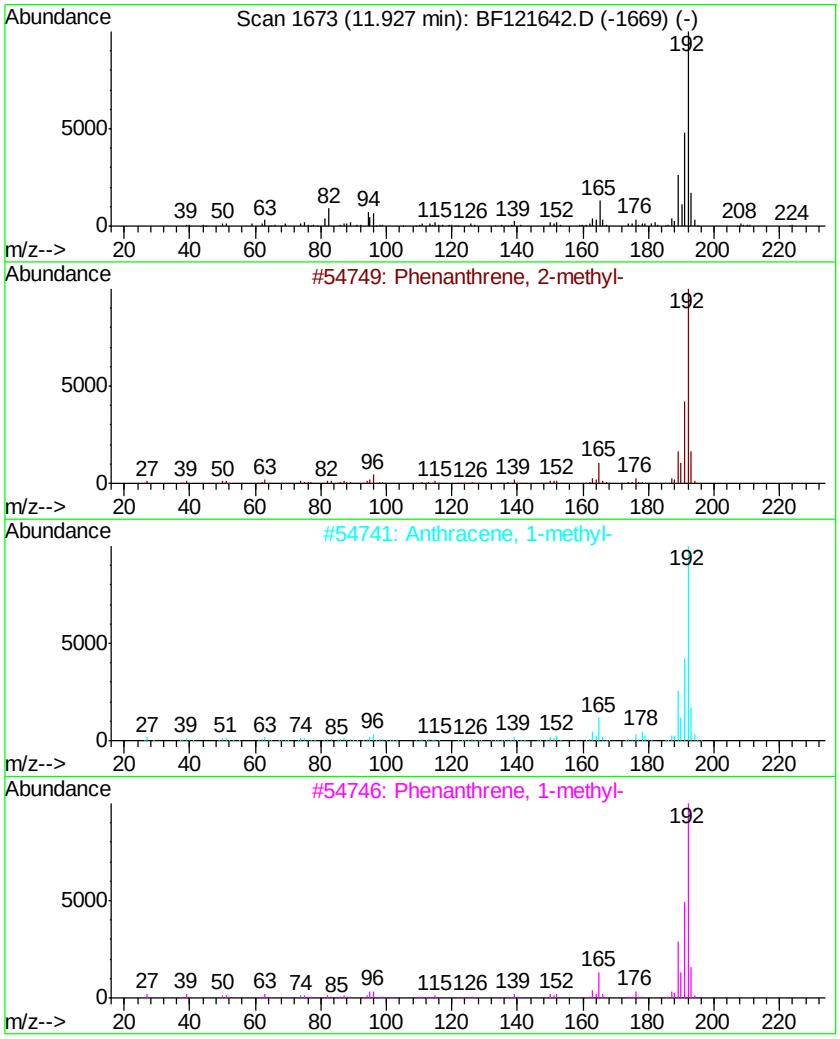
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

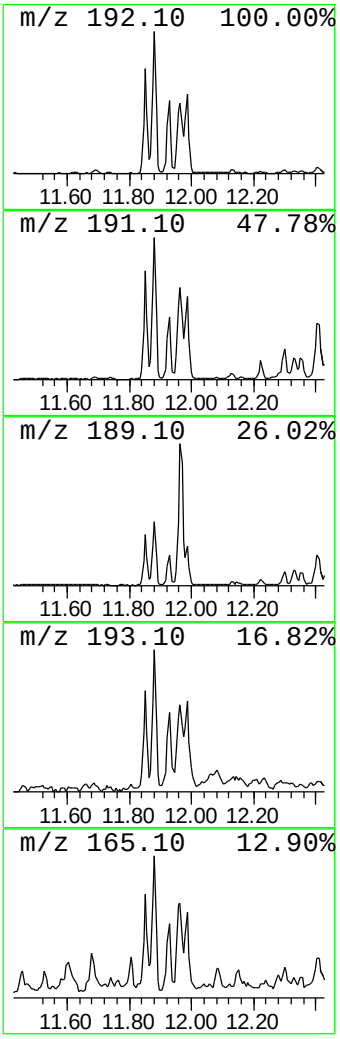
**********

Peak Number 5 Phenanthrene, 1-methyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.93 | 2.49 ng | 170450 | Phenanthrene-d10 | 11.35 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 2 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 96 |
| 3 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 96 |
| 4 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 96 |
| 5 | Phenanthrene, 3-methyl- | 192 | C15H12 | 000832-71-3 | 95 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092120\
Data File : BF121642.D
Acq On : 21 Sep 2020 23:14
Operator : JU/CG
Sample : L4073-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** H-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

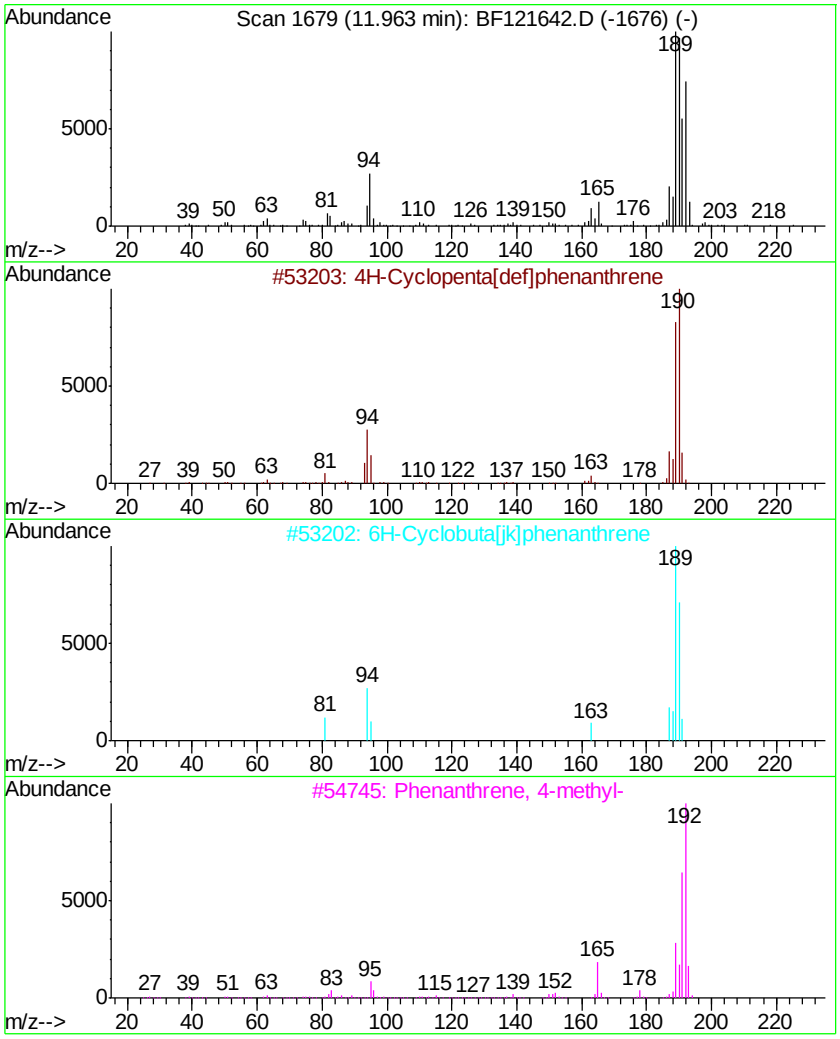
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

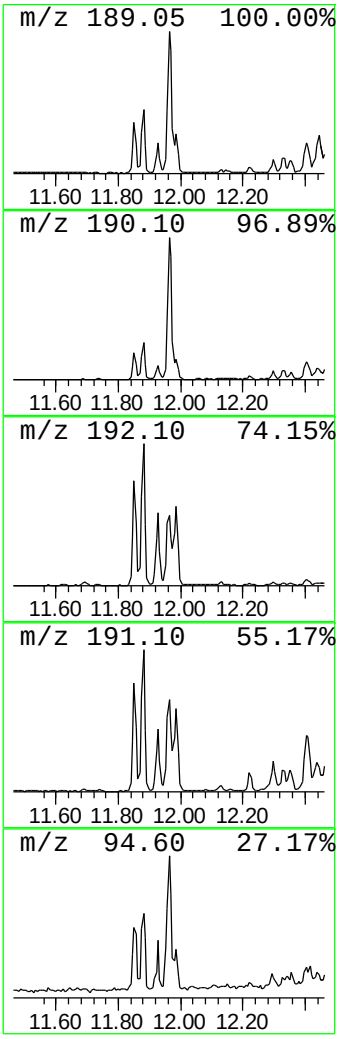
**********

Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.96 | 5.21 ng | 356280 | Phenanthrene-d10 | 11.35 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 60 |
| 2 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 49 |
| 3 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 42 |
| 4 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 38 |
| 5 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 38 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092120\
Data File : BF121642.D
Acq On : 21 Sep 2020 23:14
Operator : JU/CG
Sample : L4073-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** H-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

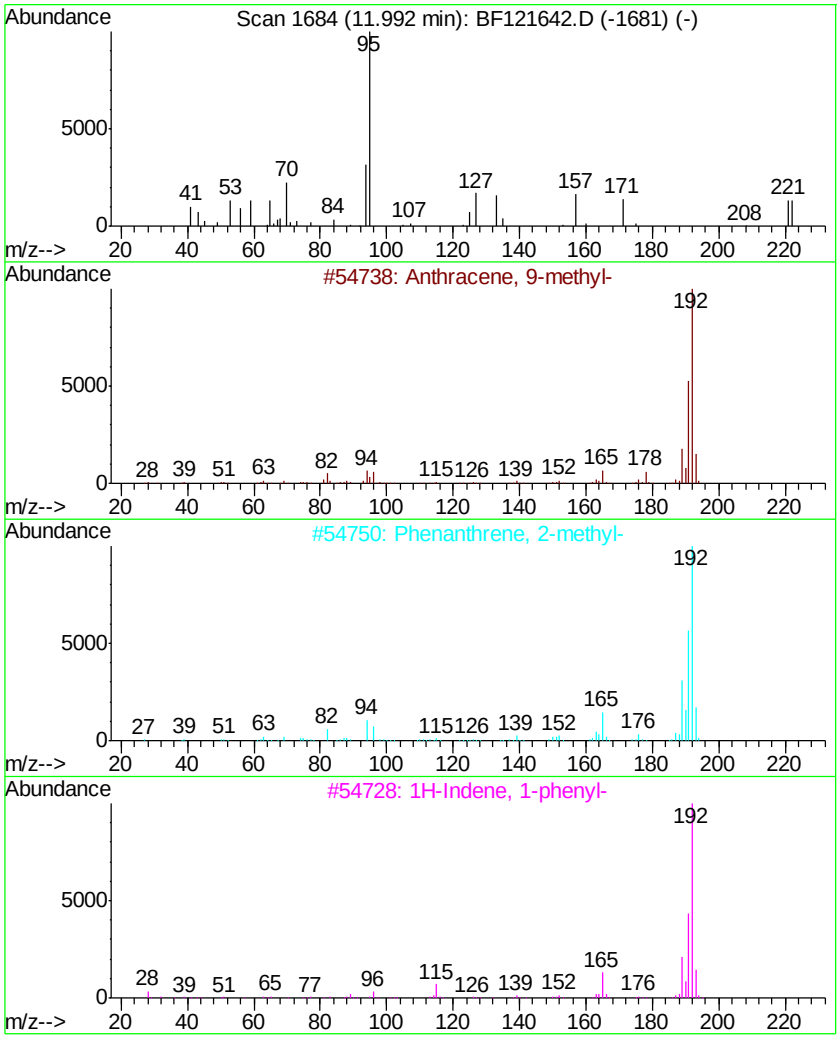
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

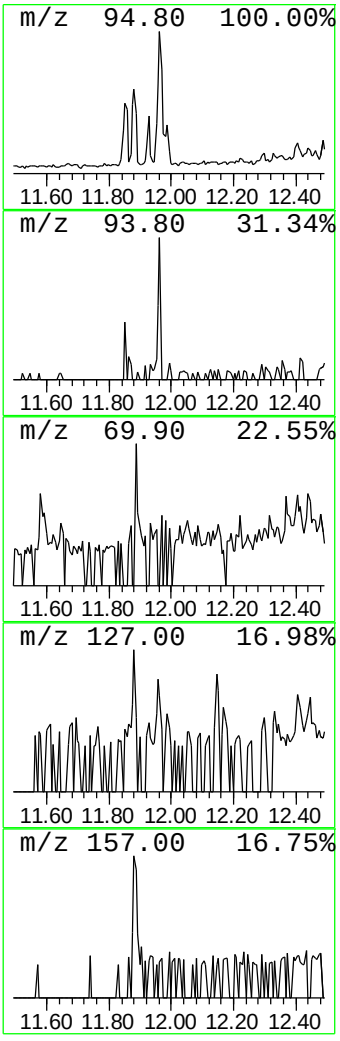
**********

Peak Number 7 Anthracene, 9-methyl- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.99 | 2.12 ng | 145190 | Phenanthrene-d10 | 11.35 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 91 |
| 2 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 91 |
| 3 | 1H-Indene, 1-phenyl- | 192 | C15H12 | 001961-96-2 | 90 |
| 4 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 90 |
| 5 | Naphtho[2,3-b]norbornadiene | 192 | C15H12 | 107426-38-0 | 87 |



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Data File : BF121642.D
Acq On : 21 Sep 2020 23:14
Operator : JU/CG
Sample : L4073-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** H-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

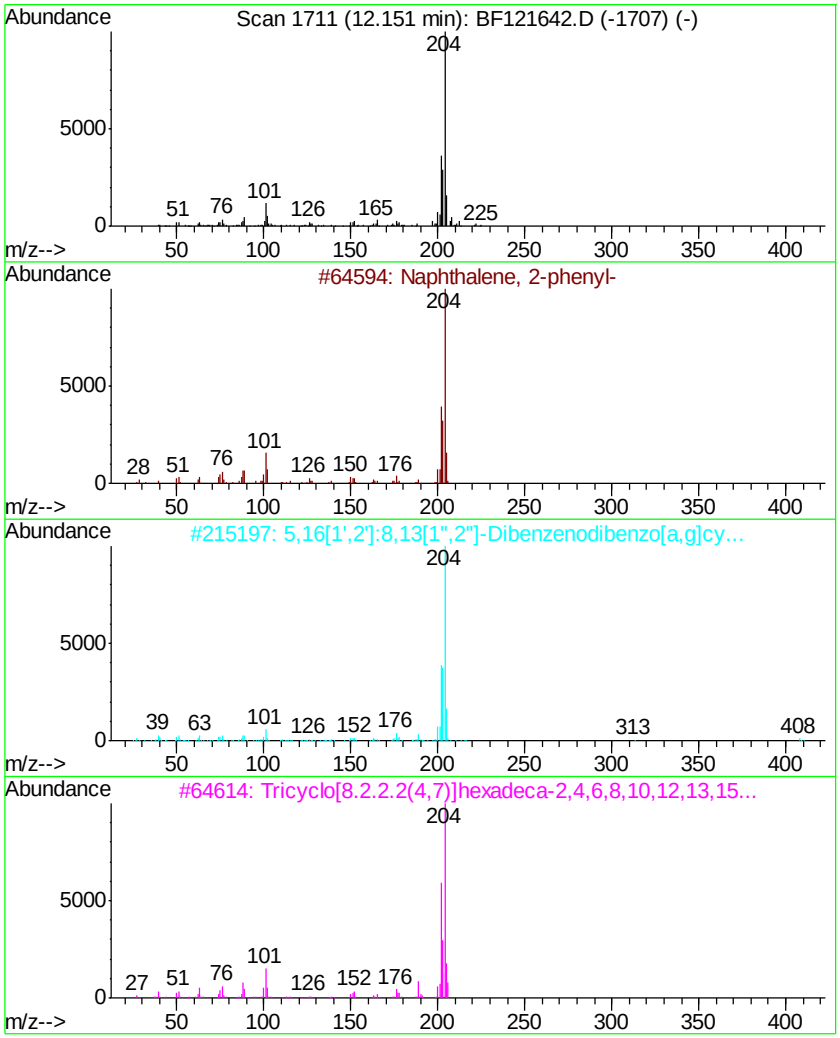
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

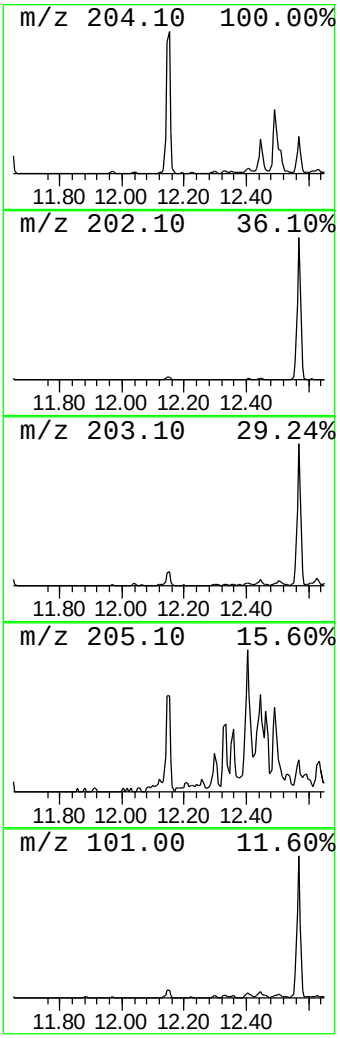
**********

Peak Number 8 Naphthalene, 2-phenyl- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.15 | 2.11 ng | 144233 | Phenanthrene-d10 | 11.35 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 93 |
| 2 | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408 | C32H24 | 005672-97-9 | 87 |
| 3 | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12 | 006572-60-7 | 81 |
| 4 | Benzene, 1,1'-(1-buten-3-yne-1,4... | 204 | C16H12 | 013141-45-2 | 52 |
| 5 | 9,10-Bis(bromomethyl)anthracene | 362 | C16H12Br2 | 034373-96-1 | 50 |



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Data File : BF121642.D
Acq On : 21 Sep 2020 23:14
Operator : JU/CG
Sample : L4073-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** H-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

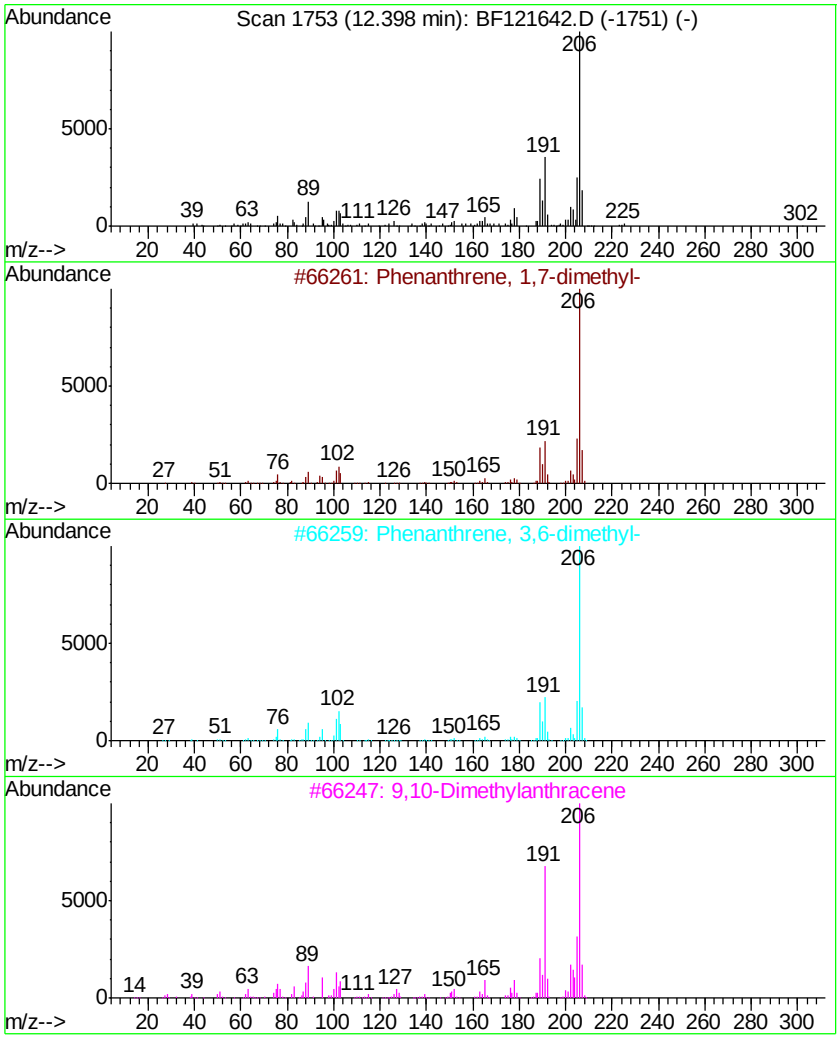
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

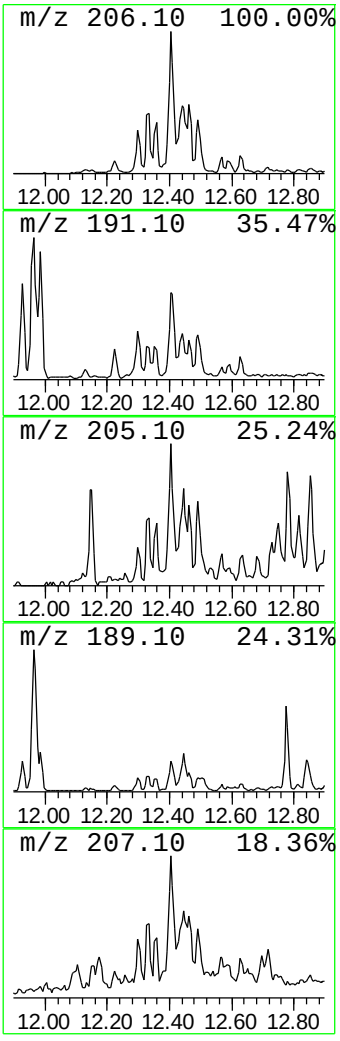
**********

Peak Number 9 Phenanthrene, 1,7-dimethyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.40 | 3.33 ng | 227687 | Phenanthrene-d10 | 11.35 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 1,7-dimethyl- | 206 | C16H14 | 000483-87-4 | 96 |
| 2 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 91 |
| 3 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 91 |
| 4 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 91 |
| 5 | Phenanthrene, 2,7-dimethyl- | 206 | C16H14 | 001576-69-8 | 87 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092120\
Data File : BF121642.D
Acq On : 21 Sep 2020 23:14
Operator : JU/CG
Sample : L4073-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** H-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

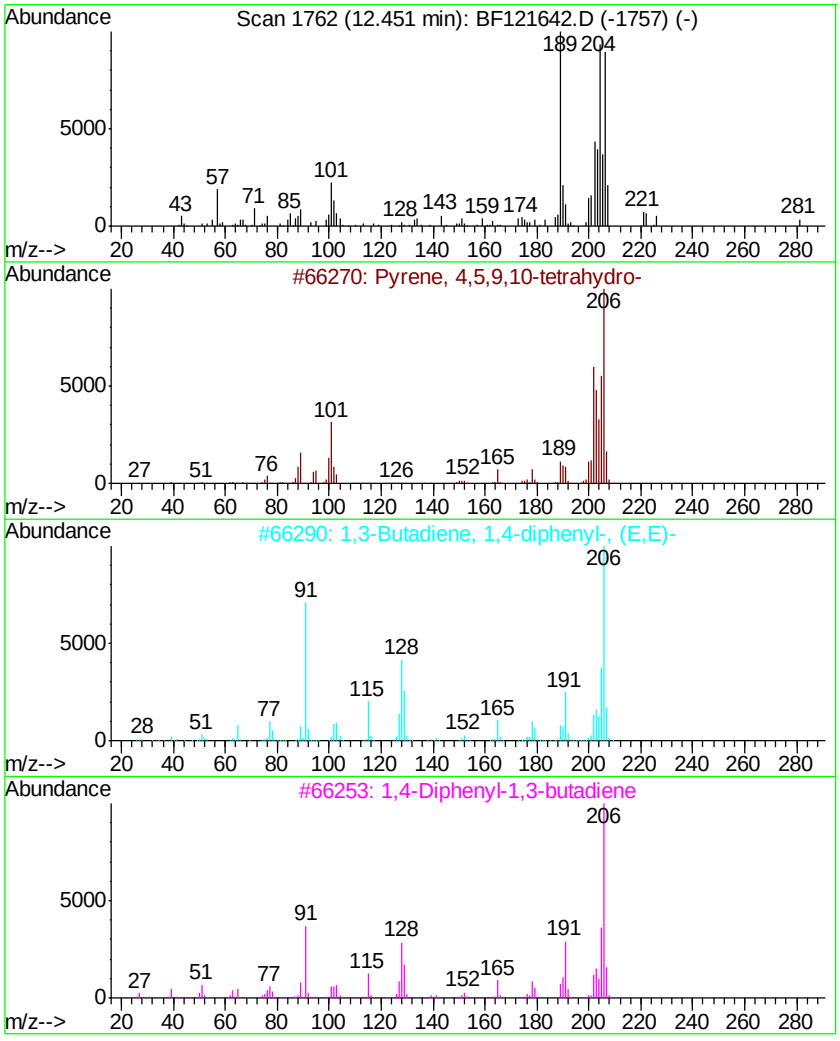
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

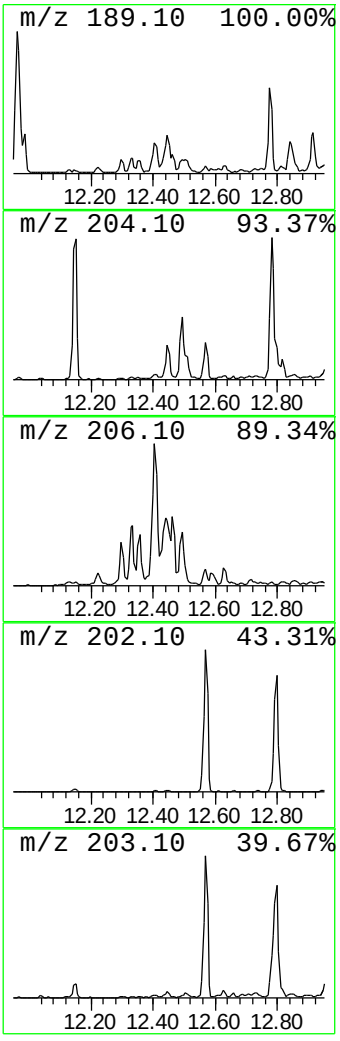
**********

Peak Number 10 unknown12.45 Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.45 | 2.89 ng | 197792 | Phenanthrene-d10 | 11.35 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 4,5,9,10-tetrahydro- | 206 | C16H14 | 000781-17-9 | 38 |
| 2 | 1,3-Butadiene, 1,4-diphenyl-, (E... | 206 | C16H14 | 000538-81-8 | 38 |
| 3 | 1,4-Diphenyl-1,3-butadiene | 206 | C16H14 | 000886-65-7 | 30 |
| 4 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 30 |
| 5 | 6-Phenylbenzocyclohepten-7-one | 232 | C17H12O | 093327-56-1 | 27 |



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Data File : BF121642.D
Acq On : 21 Sep 2020 23:14
Operator : JU/CG
Sample : L4073-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** H-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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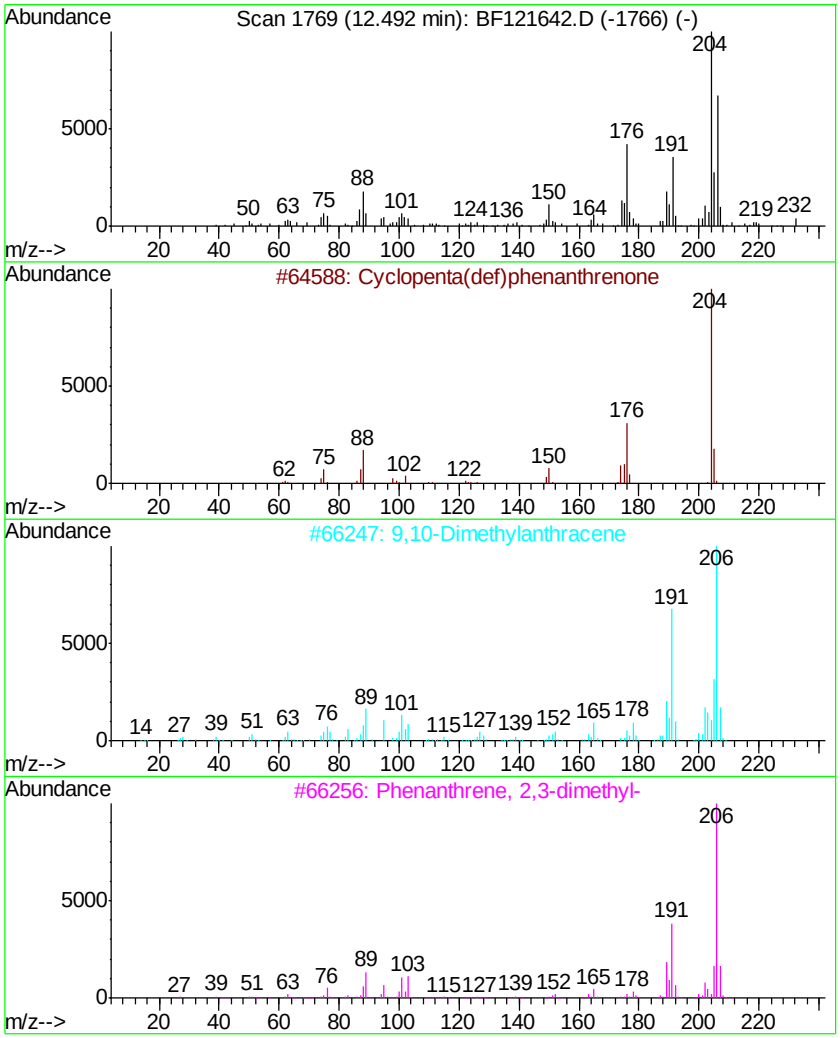
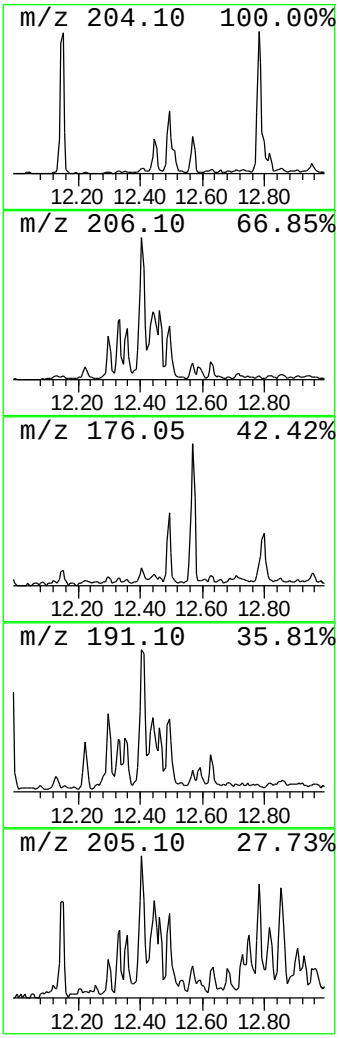
Peak Number 11 Cyclopenta(def)phenanthrenone Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.49 | 2.40 ng | 164343 | Phenanthrene-d10 | 11.35 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopenta(def)phenanthrenone | 204 | C15H8O | 005737-13-3 | 95 |
| 2 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 81 |
| 3 | Phenanthrene, 2,3-dimethyl- | 206 | C16H14 | 003674-65-5 | 42 |
| 4 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 42 |
| 5 | 1,3-Diphenyl-3-methylcyclopropene | 206 | C16H14 | 086544-79-8 | 38 |



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Data File : BF121642.D
Acq On : 21 Sep 2020 23:14
Operator : JU/CG
Sample : L4073-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** H-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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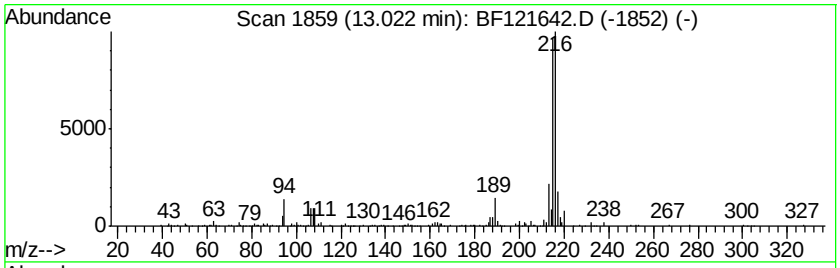
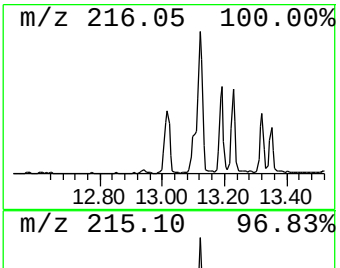
Peak Number 12 Pyrene, 1-methyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.02 | 2.78 ng | 314081 | Chrysene-d12 | 14.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 97 |
| 2 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 94 |
| 3 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 92 |
| 4 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 91 |
| 5 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 87 |



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Data File : BF121642.D
Acq On : 21 Sep 2020 23:14
Operator : JU/CG
Sample : L4073-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** H-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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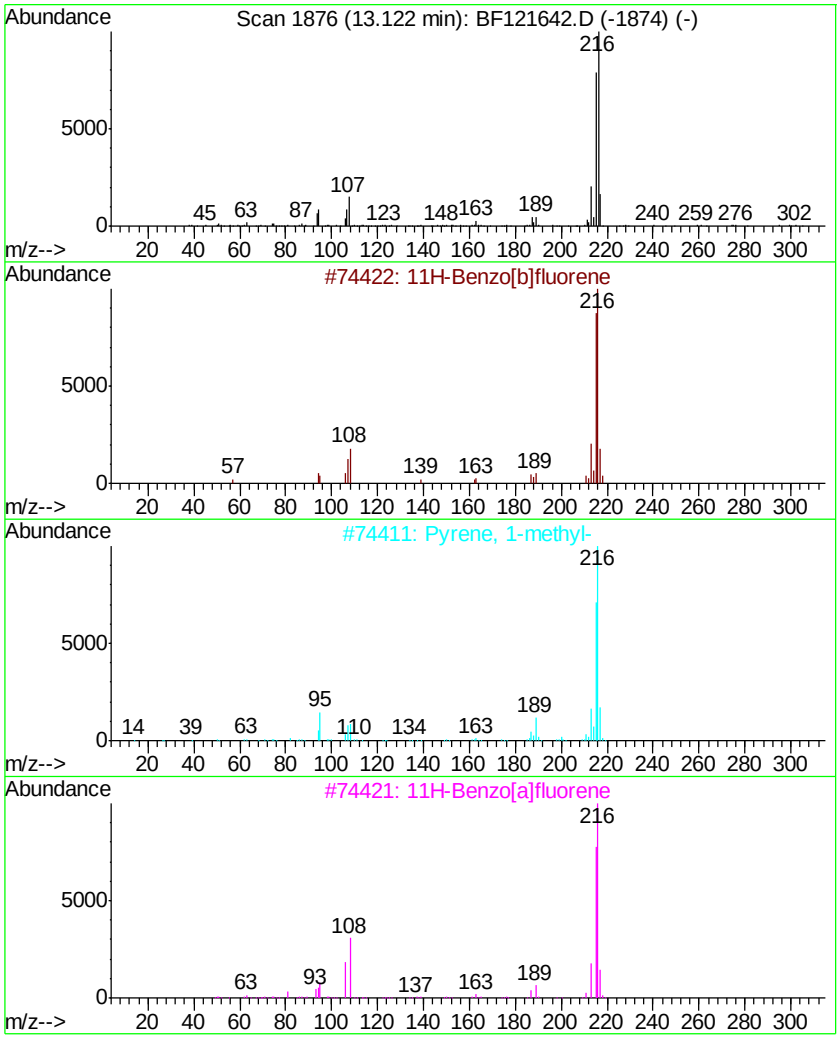
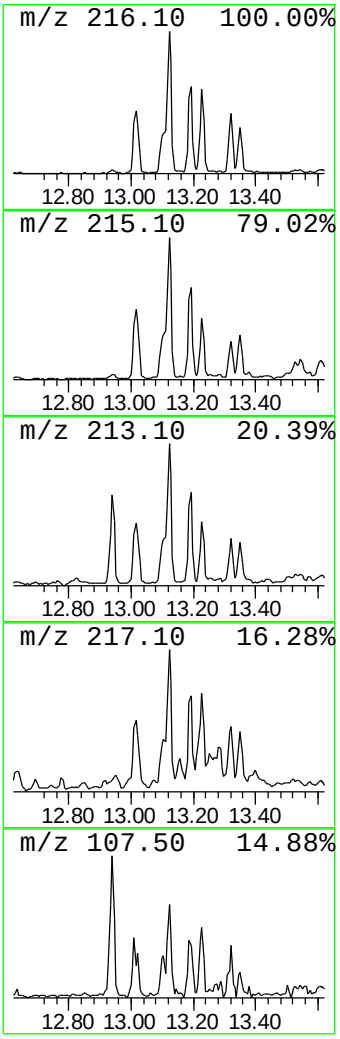
Peak Number 13 11H-Benzo[b]fluorene Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.12 | 2.83 ng | 319229 | Chrysene-d12 | 14.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 87 |
| 2 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 83 |
| 3 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 81 |
| 4 | 7H-Benzo[c]fluorene | 216 | C17H12 | 000205-12-9 | 72 |
| 5 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 64 |



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Acq On : 21 Sep 2020 23:14
Operator : JU/CG
Sample : L4073-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** H-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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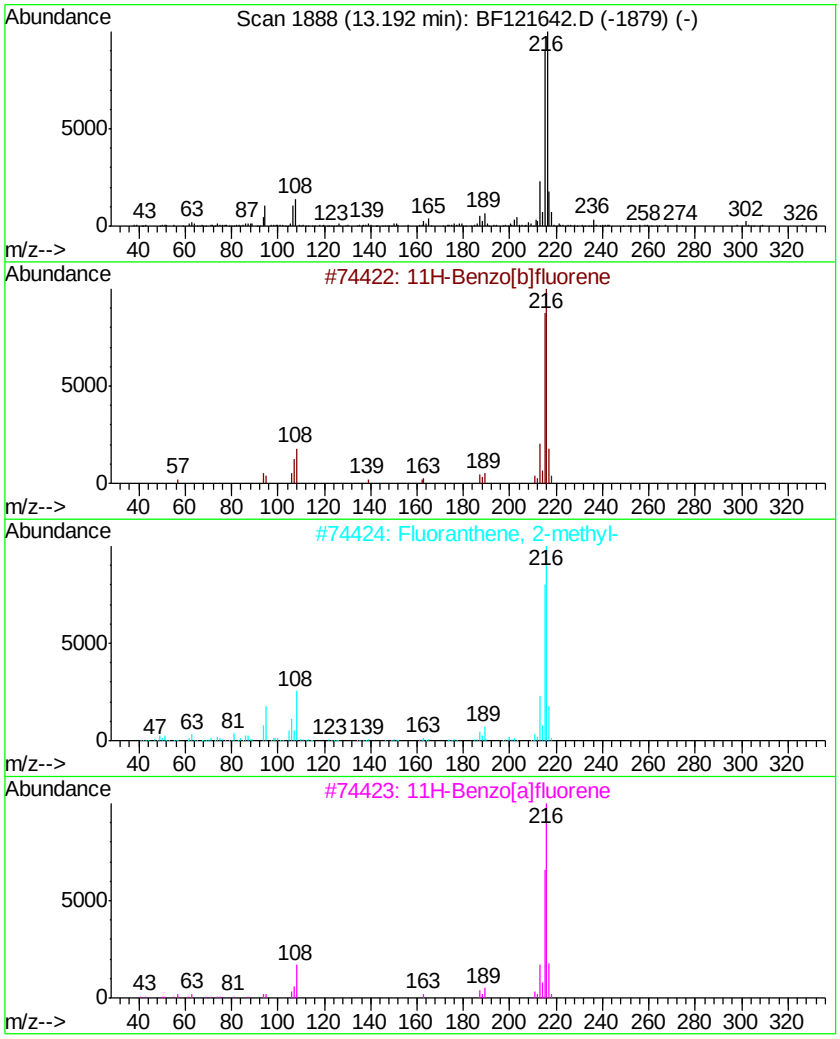
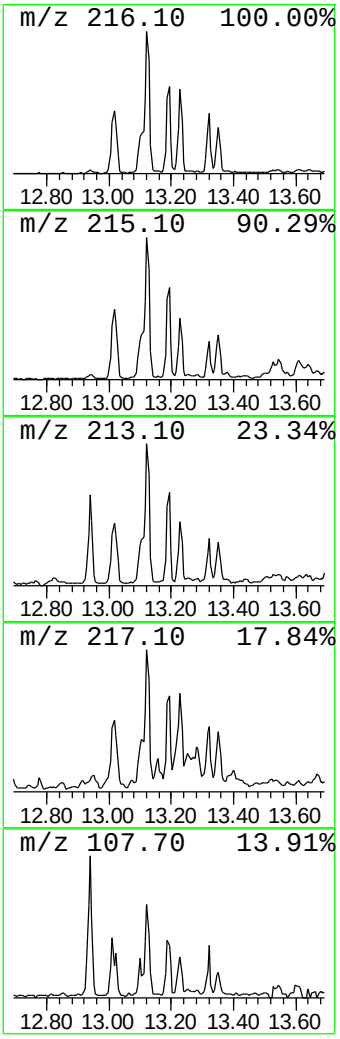
Peak Number 14 Fluoranthene, 2-methyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.19 | 3.28 ng | 369831 | Chrysene-d12 | 14.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 95 |
| 2 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 91 |
| 3 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 91 |
| 4 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 90 |
| 5 | Pyrene, 4-methyl- | 216 | C17H12 | 003353-12-6 | 53 |



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Data File : BF121642.D
Acq On : 21 Sep 2020 23:14
Operator : JU/CG
Sample : L4073-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** H-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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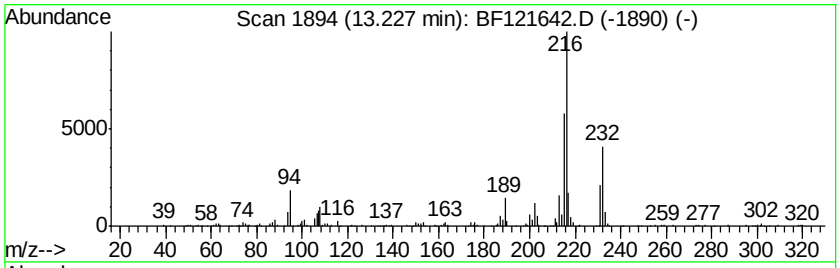
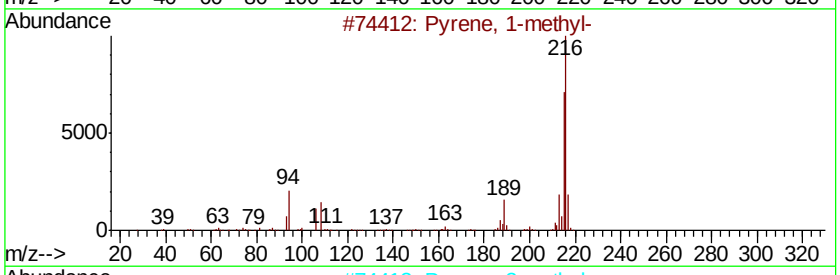
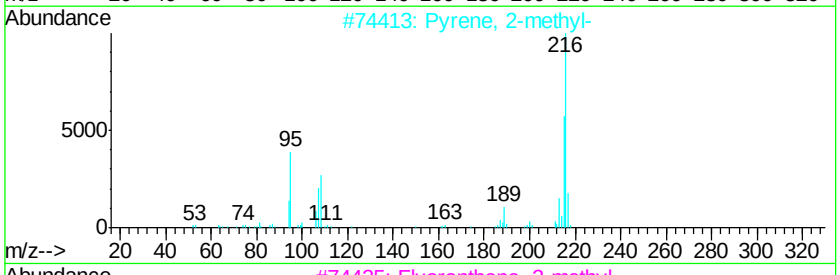
Peak Number 15 Pyrene, 2-methyl- Concentration Rank 11

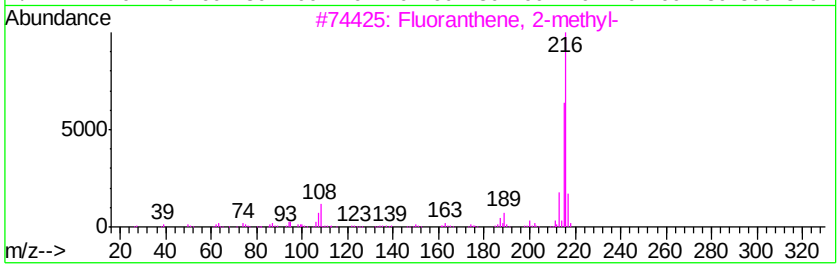
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.23 | 2.91 ng | 328608 | Chrysene-d12 | 14.00 |

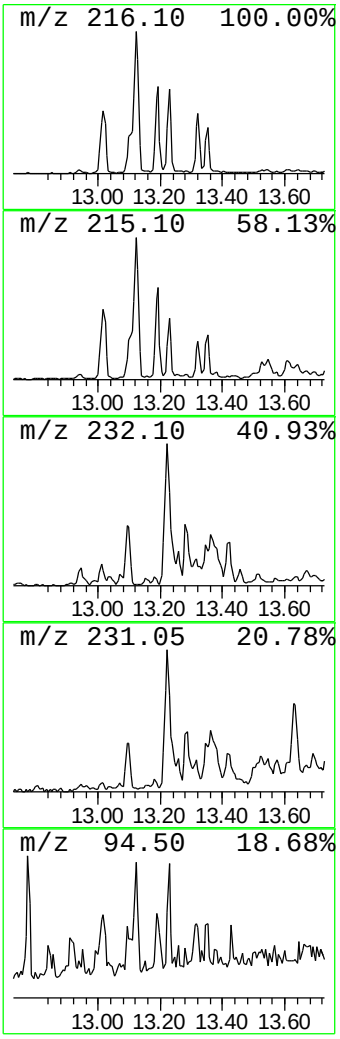
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 95 |
| 2 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 91 |
| 3 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 90 |
| 4 | Pyrene, 4-methyl- | 216 | C17H12 | 003353-12-6 | 87 |
| 5 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 64 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092120\
Data File : BF121642.D
Acq On : 21 Sep 2020 23:14
Operator : JU/CG
Sample : L4073-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** H-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

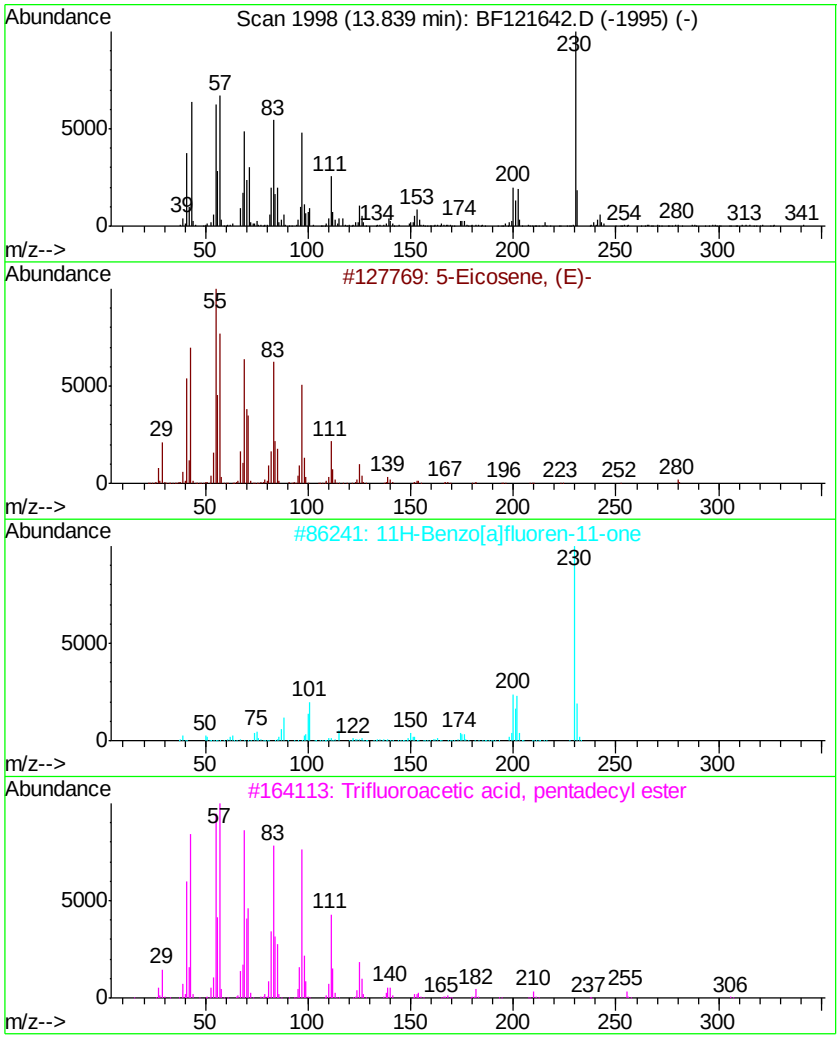
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

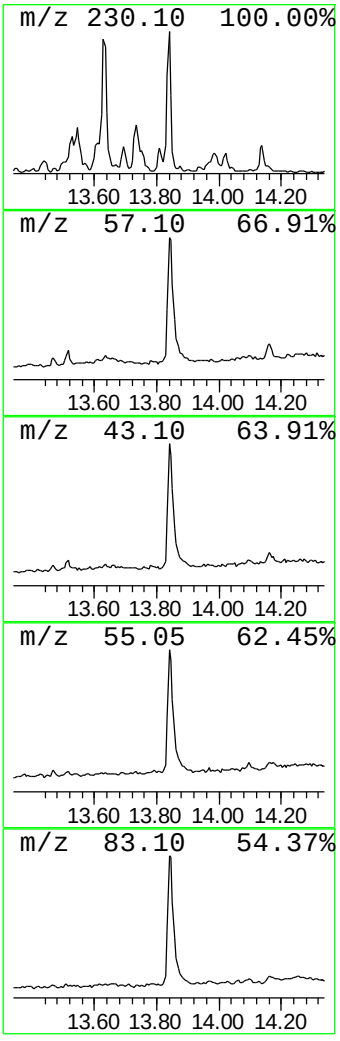
**********

Peak Number 16 5-Eicosene, (E)- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.84 | 6.18 ng | 697059 | Chrysene-d12 | 14.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5-Eicosene, (E)- | 280 | C20H40 | 074685-30-6 | 94 |
| 2 | 11H-Benzo[a]fluoren-11-one | 230 | C17H10O | 000479-79-8 | 90 |
| 3 | Trifluoroacetic acid, pentadecyl... | 324 | C17H31F3O2 | 959010-23-2 | 64 |
| 4 | Heptafluorobutyric acid, hexadec... | 438 | C20H33F7O2 | 006385-15-5 | 64 |
| 5 | Octadecyl trifluoroacetate | 366 | C20H37F3O2 | 079392-43-1 | 64 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092120\
Data File : BF121642.D
Acq On : 21 Sep 2020 23:14
Operator : JU/CG
Sample : L4073-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** H-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

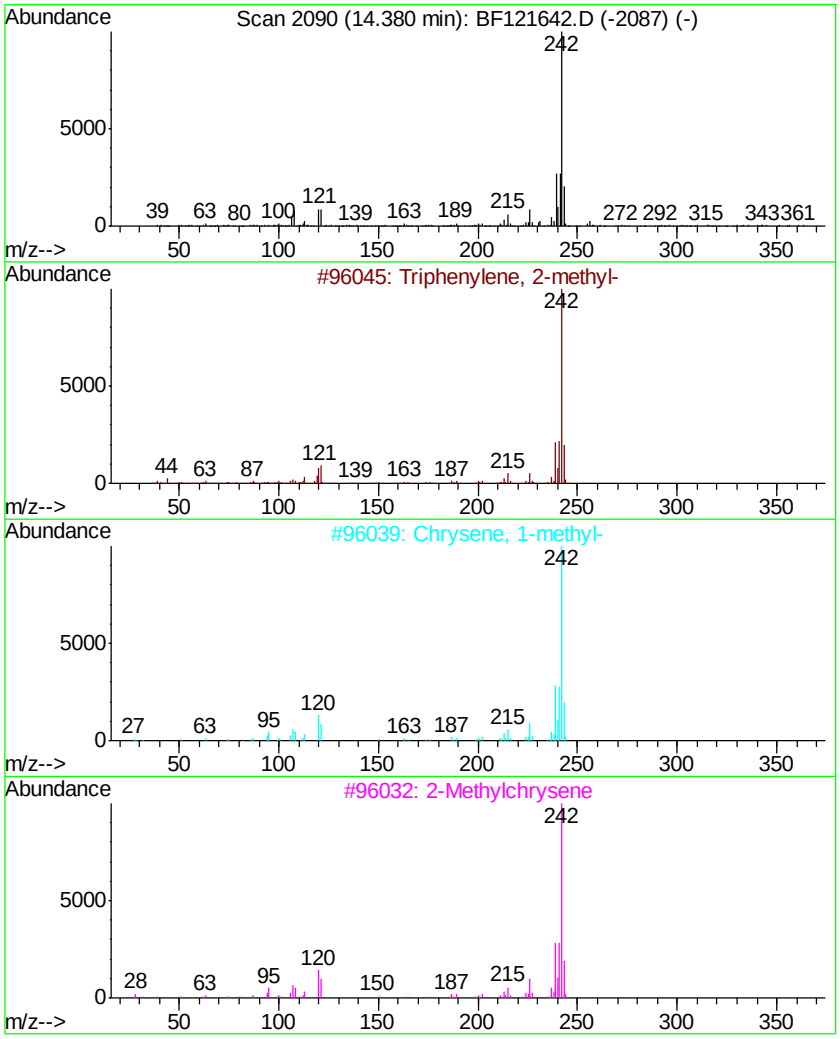
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

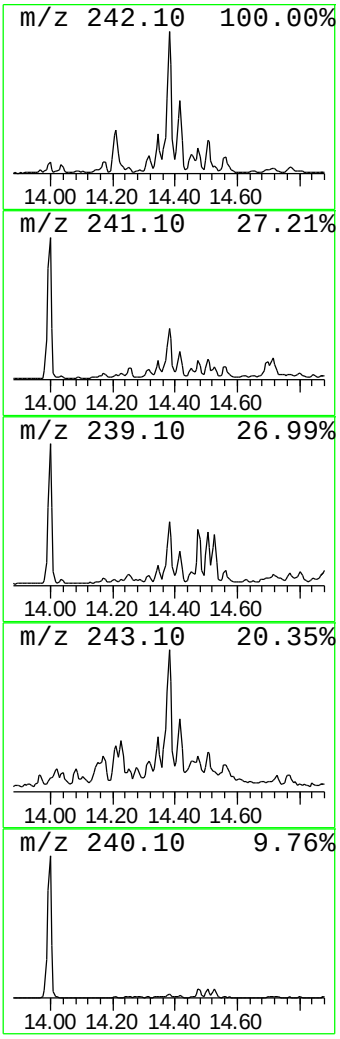
**********

Peak Number 17 Triphenylene, 2-methyl- Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.38 | 2.10 ng | 236919 | Chrysene-d12 | 14.00 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Triphenylene, 2-methyl- | 242 | C19H14 | 001705-84-6 | 96 |
| 2 | Chrysene, 1-methyl- | 242 | C19H14 | 003351-28-8 | 95 |
| 3 | 2-Methylchrysene | 242 | C19H14 | 003351-32-4 | 94 |
| 4 | Benz[a]anthracene, 7-methyl- | 242 | C19H14 | 002541-69-7 | 93 |
| 5 | Chrysene, 3-methyl- | 242 | C19H14 | 003351-31-3 | 93 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092120\
Data File : BF121642.D
Acq On : 21 Sep 2020 23:14
Operator : JU/CG
Sample : L4073-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** H-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

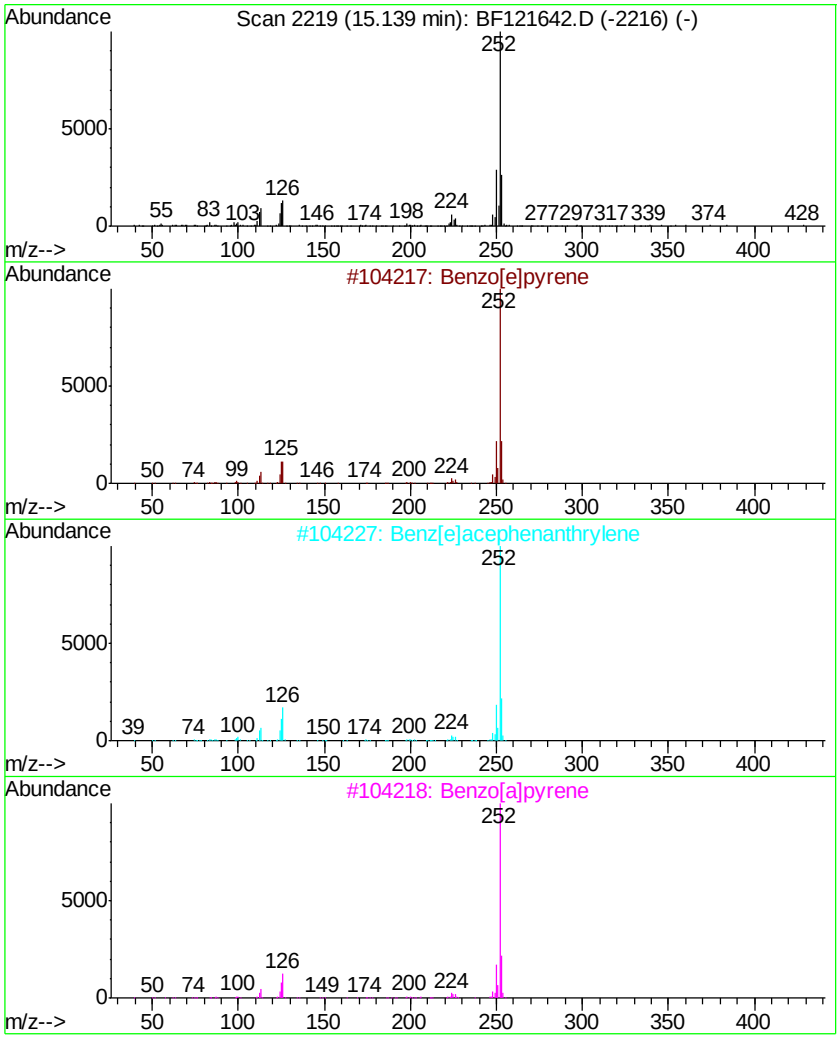
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

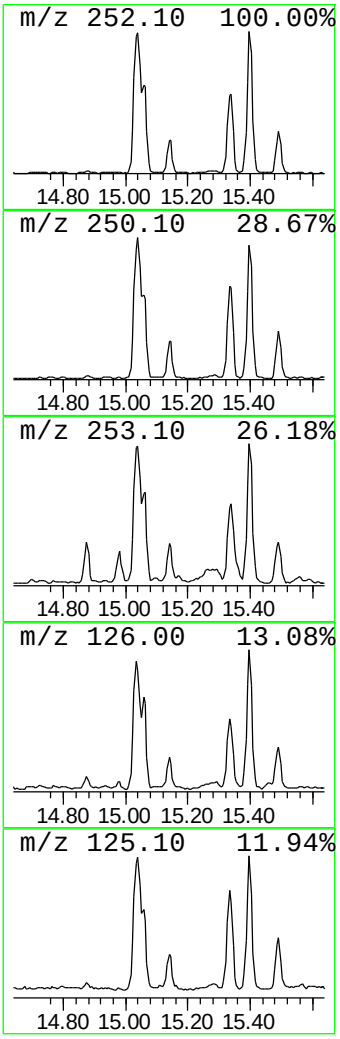
**********

Peak Number 18 Benzo[e]pyrene Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.14 | 4.39 ng | 248244 | Perylene-d12 | 15.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 93 |
| 2 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 93 |
| 3 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 91 |
| 4 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 91 |
| 5 | Perylene | 252 | C20H12 | 000198-55-0 | 87 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092120\
Data File : BF121642.D
Acq On : 21 Sep 2020 23:14
Operator : JU/CG
Sample : L4073-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** H-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

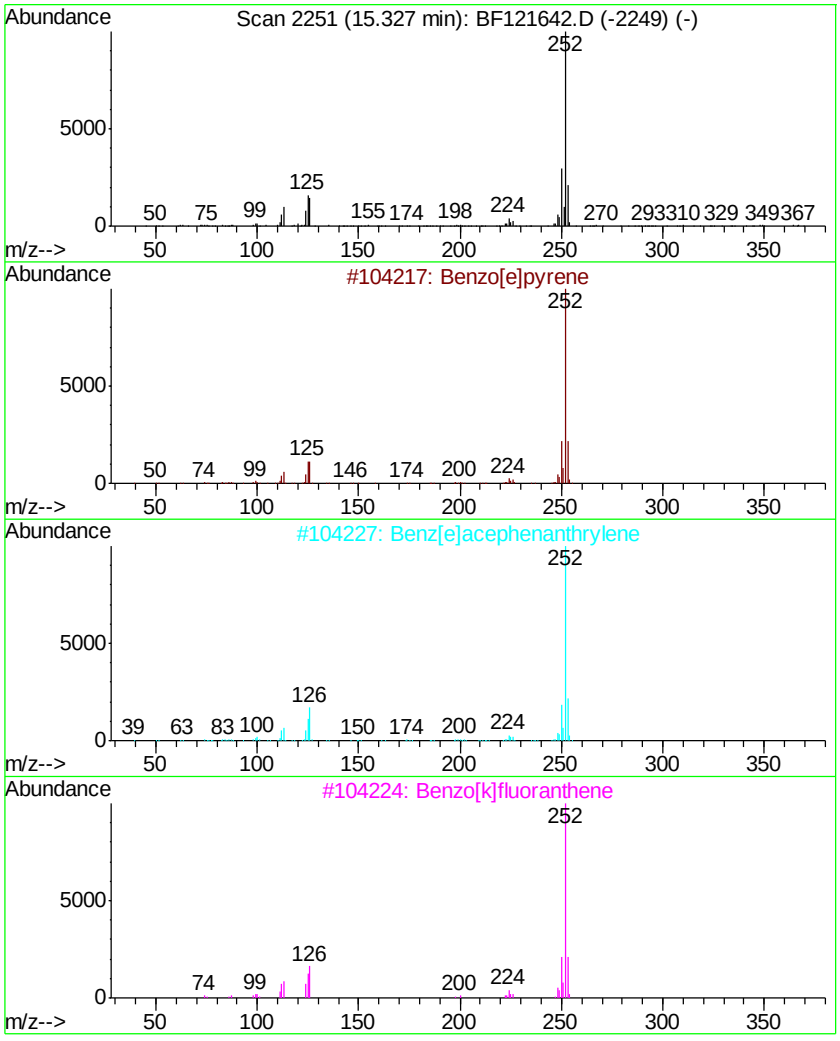
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

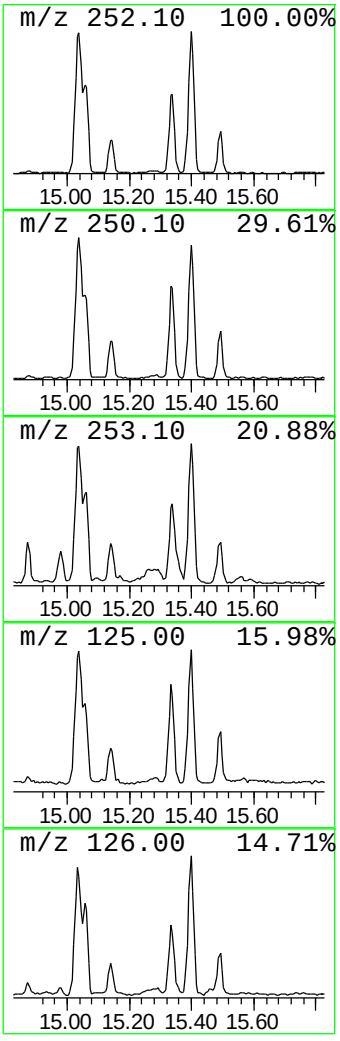
**********

Peak Number 19 Benzo[j]fluoranthene Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.33 | 10.73 ng | 606627 | Perylene-d12 | 15.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 99 |
| 2 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 98 |
| 3 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 94 |
| 4 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 93 |
| 5 | Benzo[j]fluoranthene | 252 | C20H12 | 000205-82-3 | 93 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF092120\
Data File : BF121642.D
Acq On : 21 Sep 2020 23:14
Operator : JU/CG
Sample : L4073-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** H-1

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF091020.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Ethanol, 2-(2-eth... | 6.65 | 4.1 | ng | 192883 | 1 | 6.82 | 942440 | 20.0 |
| 2,4,7,9-Tetrameth... | 9.30 | 3.5 | ng | 239888 | 3 | 9.86 | 1365720 | 20.0 |
| Anthracene, 1-met... | 11.85 | 3.2 | ng | 216725 | 4 | 11.35 | 1368830 | 20.0 |
| Phenanthrene, 2-m... | 11.88 | 5.5 | ng | 375327 | 4 | 11.35 | 1368830 | 20.0 |
| Phenanthrene, 1-m... | 11.93 | 2.5 | ng | 170450 | 4 | 11.35 | 1368830 | 20.0 |
| 4H-Cyclopenta[def... | 11.96 | 5.2 | ng | 356280 | 4 | 11.35 | 1368830 | 20.0 |
| Anthracene, 9-met... | 11.99 | 2.1 | ng | 145190 | 4 | 11.35 | 1368830 | 20.0 |
| Naphthalene, 2-ph... | 12.15 | 2.1 | ng | 144233 | 4 | 11.35 | 1368830 | 20.0 |
| Phenanthrene, 1,7... | 12.40 | 3.3 | ng | 227687 | 4 | 11.35 | 1368830 | 20.0 |
| unknown12.45 | 12.45 | 2.9 | ng | 197792 | 4 | 11.35 | 1368830 | 20.0 |
| Cyclopenta(def)ph... | 12.49 | 2.4 | ng | 164343 | 4 | 11.35 | 1368830 | 20.0 |
| Pyrene, 1-methyl- | 13.02 | 2.8 | ng | 314081 | 5 | 14.00 | 2257490 | 20.0 |
| 11H-Benzo[b]fluorene | 13.12 | 2.8 | ng | 319229 | 5 | 14.00 | 2257490 | 20.0 |
| Fluoranthene, 2-m... | 13.19 | 3.3 | ng | 369831 | 5 | 14.00 | 2257490 | 20.0 |
| Pyrene, 2-methyl- | 13.23 | 2.9 | ng | 328608 | 5 | 14.00 | 2257490 | 20.0 |
| 5-Eicosene, (E)- | 13.84 | 6.2 | ng | 697059 | 5 | 14.00 | 2257490 | 20.0 |
| Triphenylene, 2-m... | 14.38 | 2.1 | ng | 236919 | 5 | 14.00 | 2257490 | 20.0 |
| Benzo[e]pyrene | 15.14 | 4.4 | ng | 248244 | 6 | 15.46 | 1131060 | 20.0 |
| Benzo[j]fluoranthene | 15.33 | 10.7 | ng | 606627 | 6 | 15.46 | 1131060 | 20.0 |